

Micro-type single-chip microphone and its manufacturing method

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Abstract of TW235010B

The purpose of the present invention is to provide a micro-type single-chip microphone and the method of using MEMS (micro electromechanical system) technique to manufacture the beforesaid micro-type single-chip microphone. The micro-type single-chip microphone contains a base stand, which can be electrically connected to a circuit board, and the microphone chip packaged in the base stand. The microphone chip is provided with a substrate connected to the base stand and a reaction part that can respond to the sound energy. When the sound energy acts on the reaction part, a vibration membrane of the reaction part generates the corresponding deformation so as to make the capacitor composed of two separated electrode layers generate the corresponding variation. In addition, the airflow caused by the vibration membrane flows freely from the gap in between two electrode layers through the gaps in between two adjacent blocks of plural isolation blocks, which separate these two electrode layers, to the space surrounded by the base stand so as to make the micro-type single-chip microphone have the predetermined frequency response.

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